$$S K K = I ?$$

$$S K K \equiv$$

$$\equiv (\lambda x \ y \ z.x \ z \ (y \ z)) \ (\lambda a \ b.a) \ (\lambda a \ b.a) \equiv$$

$$\equiv ((\lambda x.\lambda y.\lambda z.x \ z \ (y \ z)) \ (\lambda a \ b.a)) \ (\lambda a \ b.a) \rightarrow_{\beta}$$

$$\rightarrow_{\beta} (\lambda y.\lambda z.(\lambda a \ b.a) \ z \ (y \ z)) \ (\lambda a \ b.a) \rightarrow_{\beta}$$

$$\rightarrow_{\beta} \lambda z.(\lambda a \ b.a) \ z \ ((\lambda a \ b.a) \ z) \equiv$$

$$\equiv \lambda z.((\lambda a.\lambda b.a) \ z) \ ((\lambda a \ b.a) \ z) \rightarrow_{\beta}$$

$$\rightarrow_{\beta} \lambda z.(\lambda b.z) \ ((\lambda a \ b.a) \ z) \rightarrow_{\beta}$$

$$\rightarrow_{\beta} \lambda z.z \equiv$$

$$\equiv I$$